

## Keysight U2700A Series USB Modular Instruments

### Make bench-quality measurements with space-saving, affordable modules

Roughly the size of a paperback book, Keysight USB modular instruments make it easy to perform essential measurements – waveforms, voltage, current, resistance, and more and inject standard or arbitrary waveforms into the systems or devices you're testing.

The familiar front panels are on your laptop screen: With the companion Keysight Technologies, Inc. Measurement Manager software, you'll be ready for measurements at a customer site, an outsourced manufacturing operation, and beyond. With USB 2.0 connectivity and plug-and-play simplicity, you can carry bench-quality measurements alongside a laptop PC in your bag. What's more, each device can be mounted in the six-slot U2781A USB modular chassis with other modules for modular operations. The chassis enables synchronization of all slotted modules through master/slave triggering capabilities.



U2701A/U2702A USB modular two-channel oscilloscopes

- Bandwidth of 100 MHz (U2701A) or 200 MHz (U2702A)
- 500 MSa/s sampling and 16 Mpts of memory
- Advanced triggering including edge, pulse width and line-selectable video



Keysight Measurement Manager (AMM) Highlights:

- AMM software provides a friendly interface for modular instruments
- Control instruments through individual windows that provide a familiar interface
- Configure instruments and measurements quickly and easily



U2761A USB modular one-channel function generator

- 20 MHz Sine and Square waveforms
- Pulse, ramp, triangle, noise and DC waveforms
- AM, FM, PM, ASK, FSK and PSK signals
- 64 Kpt arbitrary waveforms with 14-bit resolution up to 200 kHz
- Optional arbitrary waveform generation upgrade (2 MHz)



U2722A/U2723A USB modular source measure unit

- Four quadrant source measure operation of  $\pm 20\text{ V}/\pm 120\text{ mA}$  per channel
- 100 pA measurement with 16-bit resolution
- Embedded test script (for U2723A)
- IV Curve application support in Keysight Measurement Manager software (for U2723A)



U2741A USB modular digital multimeter

- Broad set of features and functions with 5½-digit resolution
- DC and true-RMS AC voltage/current, two- and four-wire resistance, frequency, diode test, continuity and temperature
- Fast measurements with up to 100 readings/second



U2751A USB modular switch matrix (32-channel, 4x8 2-wire)

- 32 two-wire crosspoints in a flexible 4x8 configuration
- Minimal crosstalk and insertion loss at 45 MHz
- Convenient user interface

## USB modular two-channel oscilloscopes

Model	Description
U2701A <sup>1</sup>	100 MHz USB modular oscilloscope
U2702A <sup>2</sup>	200 MHz USB modular oscilloscope

### Option and accessories

Model	Description
U2921A-100	BNC cable 1.2 m
U2921A-101	USB secure cable 2 m
10070C	1:1, 20 MHz passive probe
N2862A	10:1 passive probe 150 MHz 1.2 m (for U2701A)
N2863A	10:1 passive probe 300 MHz 1.2 m (for U2702A)

1. Includes 2 x N2862A 10:1 passive probe 150 MHz 1.2 m

2. Includes 2 x N2863A 10:1 passive probe 300 MHz 1.2 m

## USB modular one-channel function generator

Model	Description
U2761A	USB modular function generator

### Option and accessories

Model	Description
U2921A-100	BNC cable 1.2 m
U2921A-101	USB secure cable, 2 m
U2010A	Arbitrary waveform generation upgrade to 2 MHz
U2010A-1FP	Arbitrary waveform generation upgrade bundle purchase with U2761A

## USB modular digital multimeter

Model	Description
U2741A <sup>3</sup>	USB modular DMM

### Option and accessories

Model	Description
U2921A-101	USB secure cable, 2 m
34138A	Test lead set

3. Includes 34138A test lead set

## USB modular source measure unit

Model	Description
U2722A	USB modular source measure unit
U2723A	USB modular source measure unit

### Option and accessories

Model	Description
U2941A	Parametric test fixture (standalone)
U2942A	Parametric Measurement Manager Pro
U2921A-101	USB secure cable, 2 m

## USB modular switch matrix

Model	Description
U2751A	USB modular switch matrix

### Option and accessories

Model	Description
U2922A-201	Terminal block
U2921A-101	USB secure cable, 2 m

## KEYSIGHT SERVICES

*Accelerate Technology Adoption. Lower costs.*

### [www.keysight.com/find/services](http://www.keysight.com/find/services)

Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

## System requirements

### Keysight Measurement Manager software

#### Hardware requirements

- Processor 1.6 GHz Pentium IV or higher
- Operating system One of the following Microsoft Windows versions:
  - Windows XP Professional or Home Edition, Service Pack 1 or later
  - Windows Vista 32-bit (Business, Ultimate, Enterprise, Home Basic, and Home Premium Edition)
  - Windows 7 32-bit (Professional, Ultimate, Enterprise, Home Basic, and Home Premium Edition)
  - Windows 7 (64-bit) support for 32-bit application running on a WOW64 (Windows-on-Windows 64-bit) emulator
- Hard disk space 1GB
- RAM 512 MB or higher recommended
- Video Super VGA (800 x 600) 256 colors or more

#### Software requirements

- Keysight IO Libraries Suite 15.0 or higher<sup>4</sup>
- Keysight T&M Toolkit Runtime version 2.1<sup>5</sup>
- Keysight T&M Toolkit Redistributable Package 2.1 patch<sup>5</sup>
- Microsoft.NET Framework version 2.0<sup>5</sup>

4. Available on the Keysight Automation-Ready CD-ROM

5. Bundled with Keysight Measurement Manager software application installer

## Ordering information

### All products include:

- 12 V, 2 A AC/DC adapter and power cord
- USB standard-A to Mini-B interface cable
- L-mount kit (for modular instrument chassis)
- Keysight Automation-Ready CD (contains Keysight IO Libraries Suite)
- Keysight USB Modular Products Quick Start Guide and reference CD-ROM
- AMM Quick Reference Card
- Certificate of calibration